



RISE opening meeting

13th December 2021

IGBMC

Final Program

9:00-9:10 : *Welcome*

Session 1: Large Samples and Intravital imaging

Chair : Jean-Daniel Fauny (IBMC)

9:10-9:35 **Nicolas Renier** (ICM, Paris, FR)
Cutting-edge 3D whole brain imaging

9:35-10:00 **Julien Colombelli** (IRB, Barcelona, ES)
Extending imaging depth and reducing cost & complexity in lightsheet microscopy

10:00-10:25 **Laura Batti** (Wiss Center for Biomedicine, Geneva, CH)
The Advanced Lightsheet Imaging Center (ALICE)

10:25-10:50 **Jacky Goetz** (CRBS, Strasbourg, FR)
Tracking tumor metastasis in vivo at high spatio-temporal resolution.

10:50-11:10 *Break*

Session 2: Super-resolution and Molecular Imaging

Chair : Ludovic Richert (LBP)

11:10-11:35 **Sandrine Levêque-Fort** (ISMO, Orsay, FR)
Alternative strategies for 3D single molecule localization

11:35-12:00 **Yves Mely** (LPB, Illkirch, FR)
Application of single molecule and quantitative imaging techniques to bacteria and viruses

12:00-12:25 **Marcelo Nollmann** (Montpellier, France)
Microfluidics-enabled multiplexed FISH imaging in Drosophila embryos



12:30 – 14:45 Lunch

Sponsor Flash talk



14:45-14:55

Dr Christophe Depagne

ZEN Connect – Connecting the world of microscopy

Session 3: Correlative microscopy

Chair : Bertrand Vernay (IGBMC)

14:55-15:20

Mikhail Eltsov (IGBMC, Illkirch, FR)

Correlative and cryo-ET analysis of in situ chromatin organization

15:20-15:45

Perrine Paul-Gilloteaux (UMS 3556 F. Bonamy, Nantes, FR)

Cross-modal registration in correlative microscopes

15:45-16:10

Jemima Burden (MRC LMCB, London, GB)

Correlative Imaging

16:10-16:30

Break

Session 4: Image Analysis

Chair : Jérôme Mutterer (IBMP)

16:30-16:55

Jean-Yves Tinevez (Institut Pasteur, Paris, FR)

Image analysis platforms to track and follow cells in large samples

16:55-17:20

Germain Forestier (IRIMAS, Mulhouse, France)

Deep learning for digital pathology

17:20-17:45

Yassin Refahi (FARE, Reims, FR)

Multi-scale modelling and 4D image processing

17:45

Image contest results and conclusion